

IN THE CLAIMS:

Please amend the claims as follows:

1. (Previously Presented) A method for automatically generating and sending a short message service (SMS) message to a subscriber in a mobile communications network in response to a change in location of the subscriber, the method comprising:
 - (a) receiving, at a telecommunications network element, a plurality of mobile call signaling messages;
 - (b) screening, at the telecommunications network element, mobile call signaling messages exchanged between a home location register (HLR) and a visitor location register (VLR) that relate to in location of mobile subscribers;
 - (c) correlating the screened mobile call signaling messages based on at least one parameter in the mobile call signaling messages to identify mobile call signaling messages in a dialogue between the HLR and the VLR that relates to a change in location of a particular mobile subscriber;
 - (d) generating a change in location indication message based on parameters extracted from the correlated mobile call signaling messages;

- (e) sending the change in location indication message to a short message service center (SMSC);
 - (f) in response to receiving the change in location indication message by SMSC, generating an SMS message intended for the particular mobile subscriber; and
 - (g) sending the SMS message to the mobile subscriber, wherein performing steps (a)-(g) includes performing steps (a)-(g) automatically in response to the change in location of the particular mobile subscriber.
2. (Previously Presented) The method of claim 1 wherein receiving a plurality of mobile call signaling messages includes receiving a mobile application part (MAP) update location request message.
 3. (Previously Presented) The method of claim 1 wherein receiving a plurality of mobile call signaling messages includes receiving a mobile application part (MAP) insert subscriber data message.
 4. (Previously Presented) The method of claim 1 wherein receiving a plurality of mobile call signaling messages includes receiving a mobile application part (MAP) update location response message.
 5. (Previously Presented) The method of claim 1 wherein generating a change in location indication message includes generating the change in location indication message using a home location register Identifier (HLR ID) identifying an HLR of the particular mobile subscriber.

6. (Previously Presented) The method of claim 1 wherein generating a change in location indication message includes generating the change in location indication message using a visitor location register identifier (VLR ID) identifying a VLR currently serving the particular mobile subscriber.
7. (Previously Presented) The method of claim 1 wherein generating a change in location indication message includes generating the change in location indication message using a mobile identification number (MIN), mobile directory number (MDN) or mobile subscriber ISDN (MSISDN) number.
8. (Previously Presented) The method of claim 1 wherein generating a change in location indication message includes generating the change in location indication message using an international mobile station identity (IMSI) number.
9. (Previously Presented) The method of claim 1 wherein generating a change in location indication message includes generating the change in location indication message using an MSC ID.
10. (Previously Presented) The method of claim 1 wherein generating a change in location indication message includes generating a change in location indication message including a date and a time.
11. (Previously Presented) The method of claim 1 wherein generating an SMS message includes generating a message welcoming or greeting the particular mobile subscriber or other type of message that a mobile communications network operator desires to send to a subscriber.

12. (Previously Presented) The method of claim 1 wherein generating an SMS message includes generating at least one of: an advertisement, a weather report, hotel information, and other information that a mobile communications network operator wishes to send to the particular mobile subscriber.
13. (Original) The method of claim 1 wherein correlating the mobile call signaling messages includes correlating the mobile call signaling messages based on a Dialogue ID in the mobile call signaling messages.
14. (Previously Presented) A method for automatically generating and sending a short message service (SMS) message to a subscriber in a mobile communications network in response to a change in the location of the subscriber, the method comprising:
 - (a) receiving a plurality of mobile call signaling messages at a telecommunications network element;
 - (b) screening, at the telecommunications network element, mobile call signaling messages exchanged between a home location register (HLR) and a visitor location register (VLR) that relate to in location of mobile subscribers;
 - (c) correlating the screened mobile call signaling messages to identify mobile call signaling messages in a dialogue between the HLR and the VLR that relates to a change in location of a particular mobile subscriber;

- (d) combining parameters extracted from the correlated mobile call signaling messages to generate an SMS message intended for the particular mobile subscriber; and
 - (e) sending the SMS message to the mobile subscriber, wherein performing steps (a)-(e) includes performing steps (a)-(e) automatically in response to the change in location of the particular mobile subscriber.
15. (Previously Presented) The method of claim 14 wherein receiving a plurality of mobile call signaling messages at a telecommunications network element includes receiving a mobile application part (MAP) update location request message.
16. (Previously Presented) The method of claim 14 wherein receiving a plurality of mobile call signaling messages at a telecommunications network element includes receiving a mobile application part (MAP) Insert subscriber data message.
17. (Previously Presented) The method of claim 14 wherein receiving a plurality of mobile call signaling messages at a telecommunications network element includes receiving a mobile application part (MAP) update location response message.
18. (Previously Presented) The method of claim 14 wherein combining parameters extracted from the correlated mobile call signaling messages to generate an

SMS message includes using an HLR identifier to generate the SMS message.

19. (Previously Presented) The method of claim 14 wherein combining parameters extracted from the correlated mobile call signaling messages to generate an SMS message intended for the particular mobile subscriber includes using a VLR identifier extracted from the correlated mobile call signaling messages to generate the SMS message.
20. (Previously Presented) The method of claim 14 wherein combining parameters extracted from the correlated mobile call signaling messages to generate an SMS message intended for the particular mobile subscriber includes using at least one of a mobile identification number (MIN), a mobile directory number (MDN), and a mobile subscriber ISDN (MSISDN) number to generate the SMS message.
21. (Previously Presented) The method of claim 14 wherein combining parameters extracted from the correlated mobile call signaling messages to generate an SMS message intended for the particular mobile subscriber includes using an international mobile station identity (IMSI) number extracted from the correlated mobile call signaling messages to generate the SMS message.
22. (Previously Presented) The method of claim 14 wherein combining parameters extracted from the correlated mobile call signaling messages to generate an SMS message intended for the particular mobile subscriber includes using an

MSC ID extracted from the correlated mobile call signaling messages to generate the SMS message.

23. (Previously Presented) The method of claim 14 wherein combining parameters extracted from the correlated mobile call signaling messages to generate an SMS message intended for the particular mobile subscriber includes using a date and a time derived from the mobile call signaling messages to generate the SMS message.
24. (Previously Presented) The method of claim 14 wherein the SMS message is a message welcoming or greeting the particular mobile subscriber, or other message that a mobile communications network operator desires to send to the particular mobile subscriber.
25. (Original) The method of claim 14 wherein correlating the mobile call signaling messages includes correlating the mobile call signaling messages based on a Dialogue ID in the mobile call signaling messages.
26. (Previously Presented) A method for correlating mobile call signaling messages transmitted between a home location register (HLR) and a visitor location register (VLR) in response to a change in location of a mobile subscriber, the method comprising:
 - (a) receiving, at a telecommunications network element, a plurality of mobile call signaling messages exchanged between a home location register (HLR) and a visitor location register (VLR);

- (b) screening, at the telecommunications network element, from the mobile call signaling messages, messages that relate to changes in location of mobile subscribers;
 - (c) correlating the screened mobile call signaling messages based on one or more parameters in the mobile call signaling messages to identify mobile call signaling messages in a dialogue between the HLR and the VLR that relates to a change in location of a particular mobile subscriber; and
 - (d) generating mobile call location update records based on the correlated mobile call signaling messages, wherein performing steps (a)-(d) includes performing steps (a)-(d) automatically in response to the change in location of the particular mobile subscriber.
27. (Previously Presented) The method of claim 26 wherein correlating the screened mobile call signaling messages based on one or more parameters in the mobile call signaling messages includes correlating the mobile call signaling messages based on a dialogue ID contained in the mobile call signaling messages.
28. (Previously Presented) The method of claim 26 comprising comparing an HLR ID and a VLR ID in each screened mobile call signaling message and determining whether a subscriber is roaming in a foreign network in which the subscriber has not previously registered with a VLR based on the comparison.

29. (Previously Presented) The method of claim 28 comprising, in response to determining that the subscriber is roaming in a foreign network in which the subscriber is not previously registered with a VLR, continuing correlation processing for the mobile call signaling messages.
30. (Previously Presented) The method of claim 28 comprising, in response to determining that the subscriber is not roaming in a foreign network in which the subscriber is not previously registered with a VLR, stopping correlation processing for the mobile call signaling messages.
31. (Original) The method of claim 26 wherein storing the mobile call signaling messages in mobile call location update records comprises, in response to receiving each of the mobile call signaling messages:
 - (a) determining whether a mobile call location update record is active;
 - (b) in response to determining that a mobile call location update record is active for the message, storing the message in the mobile call location update record; and
 - (c) in response to determining that a mobile call location update record is not active for the message, creating a new mobile call location update record and storing the message therein.
32. (Original) The method of claim 26 comprising, in response to completing a mobile call location update record, generating a change in location indication message and sending the change in location indication message to a short message service center.

33. (Original) The method of claim 26 comprising for each mobile call change in location update record, in response to failing to receive all of the mobile call signaling messages to complete the mobile call change in location update record within a predetermined time period, discarding the mobile call change in location update record.
34. (Previously Presented) A system for automatically generating and sending a short message service (SMS) message to a subscriber in a mobile communications network in response to a change in the location of the subscriber, the system comprising:
- (a) a telecommunications network element for receiving a plurality of mobile call signaling messages and for screening mobile call signaling messages exchanged between a home location register (HLR) and a visitor location register (VLR) relating to changes in location of mobile subscribers;
 - (b) a message processing platform operatively associated with the telecommunications network element for receiving the screened mobile call signaling messages, for correlating the mobile call signaling messages to identify mobile call signaling messages in a dialogue between the HLR and the VLR related to a change in location of a particular mobile subscriber, and for generating a change in location indication message based on the correlated mobile call signaling messages; and

- (c) a short message service center (SMSC) for receiving the change in location indication message from the message processing platform and for generating an SMS message intended for the particular mobile subscriber, wherein the telecommunications network element, the message processing platform, and the short message service center are adapted to respectively perform the functions in elements (a)-(c) automatically in response to the change in location of the particular mobile subscriber.
35. (Previously Presented) The system of claim 34 wherein the telecommunications network element comprises a signal transfer point (STP).
36. (Previously Presented) The system of claim 34 wherein the telecommunications network element comprises a signaling gateway routing node.
37. (Canceled)
38. (Canceled)
39. (Previously Presented) The system of claim 34 wherein the telecommunications network element comprises a visitor location register (VLR).
40. (Previously Presented) The system of claim 34 wherein the telecommunications network element comprises a home location register (HLR).

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41. (Previously Presented) The system of claim 34 wherein the owners or operators of an HLR in a home network of the particular mobile subscriber and the telecommunications network element are not the same.
42. (Previously Presented) The system of claim 34 wherein the message processing platform is contained within the telecommunications network element.
43. (Previously Presented) The system of claim 34 wherein the message processing platform is an external computing workstation coupled to the telecommunications network element.
44. (Original) The system of claim 34 wherein the message processing platform includes a message correlator/generator for correlating the mobile call signaling messages and for generating the change in location indication message.
45. (Previously Presented) A system for automatically generating and sending a Short Message Service (SMS) message to a subscriber in a mobile communications network in response to a change in the location of the subscriber, the system comprising:
 - (a) a telecommunications network element for receiving a plurality of mobile call signaling messages and for screening mobile call signaling messages exchanged between a home location register (HLR) and a visitor location register (VLR) that relate to changes in location of mobile subscribers; and

- (b) a message processing platform associated with the telecommunications network element for correlating the screened mobile call signaling messages to identify mobile call signaling messages in a dialogue between the HLR and the VLR related to a change in location of the particular mobile subscriber and for generating a short message service (SMS) message intended for the particular mobile subscriber based on the correlated messages, wherein the telecommunications network element and the message processing platform are adapted to respectively perform the functions in elements (a) and (b) automatically in response to the change in location of the particular mobile subscriber.
46. (Previously Presented) The system of claim 45 wherein the telecommunications network element comprises a signal transfer point (STP).
47. (Previously Presented) The system of claim 45 wherein the telecommunications network element comprises a signaling gateway.
48. (Previously Presented) The system of claim 45 wherein the telecommunications network element comprises a visitor location register (VLR).
49. (Previously Presented) The system of claim 45 wherein the telecommunications network element comprises an HLR.
50. (Canceled)
51. (Canceled)

52. (Previously Presented - Currently Amended) The system of claim [[51]] 45 wherein the owners or operators of an HLR in a home network of the particular mobile subscriber and the telecommunications network element are not the same.
53. (Previously Amended) The system of claim 45 wherein the message processing platform is contained within the telecommunications network element.
54. (Previously Presented) The system of claim 45 wherein the message processing platform is an external computing workstation coupled to the telecommunications network element.
55. (Original) The system of claim 45 wherein the message processing platform includes a message correlator/generator for correlating the MAP messages and for generating the change in location indication messages.
56. (Original) The system of claim 45 wherein the message correlator/generator is adapted to correlate the MAP messages based on a Dialogue ID in the MAP messages.
57. (Previously Presented) A system for generating a message in response to a change in location of a mobile subscriber, the system comprising:
- (a) a telecommunications network signaling node for receiving mobile call signaling messages and for screening selected mobile application part (MAP) messages exchanged between a home location register (HLR)

and a visitor location register (VLR) in response to changes in location of mobile subscribers; and

- (b) a message processing platform operatively associated with the signaling node for receiving the screened MAP messages, correlating the screened MAP messages to identify MAP messages in a dialogue between the HLR and the VLR for a change in location of a particular mobile subscriber, and generating a change in location indication message based on the correlated MAP messages, wherein the telecommunications network element and the message processing platform are adapted to respectively perform the functions in elements (a) and (b) automatically in response to the change in location of the particular mobile subscriber.
58. (Original) The system of claim 57 wherein the message processing platform is adapted to send the change in location indication message to a short message service center.
59. (Original) The system of claim 57 wherein the message processing platform is adapted to send the change location update message to a presence server.
60. (Previously Presented) The method of claim 1 wherein receiving a plurality of mobile call signaling messages at a telecommunications network element includes receiving a plurality of mobile call signaling messages at a signal transfer point and routing the mobile call signaling messages to their intended destinations.

61. (Previously Presented) The method of claim 14 wherein receiving a plurality of mobile call signaling messages at a telecommunications network element includes receiving a plurality of mobile call signaling messages at a signal transfer point and routing the mobile call signaling messages to their intended destinations.
62. (Previously Presented) The method of claim 26 wherein receiving a plurality of mobile call signaling messages at a telecommunications network element includes receiving a plurality of mobile call signaling messages at a signal transfer point and routing the mobile call signaling messages to their intended destinations.
63. (Previously Presented) The system of claim 57 wherein the telecommunications network signaling node comprises a signal transfer point for routing the mobile call signaling messages to their intended destinations.
64. (Previously Presented) The method of claim 1 wherein correlating the screened mobile call signaling messages based on at least one parameter in the mobile call signaling messages to identify mobile call signaling messages in a dialogue between the HLR and the VLR includes correlating the mobile call signaling messages to identify a mobile application part (MAP) update location request message, a MAP insert subscriber data message, and a MAP update location response message that relate to a change in location of the particular mobile subscriber.

65. (Previously Presented) The method of claim 14 wherein correlating the screened mobile call signaling messages based on at least one parameter in the mobile call signaling messages to identify mobile call signaling messages in a dialogue between the HLR and the VLR includes correlating the mobile call signaling messages to identify a mobile application part (MAP) update location request message, a MAP insert subscriber data message, and a MAP update location response message that relate to a change in location of the particular mobile subscriber.
66. (Previously Presented) The method of claim 26 wherein correlating the screened mobile call signaling messages based on at least one parameter in the mobile call signaling messages to identify mobile call signaling messages in a dialogue between the HLR and the VLR includes correlating the mobile call signaling messages to identify a mobile application part (MAP) update location request message, a MAP insert subscriber data message, and a MAP update location response message that relate to a change in location of the particular mobile subscriber.
67. (Previously Presented) The system of claim 34 wherein the message processing platform is adapted to identify a sequence of a mobile application part (MAP) update location request message, a MAP insert subscriber data message, and a MAP update location response message relating to a change in location of the particular mobile subscriber.

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68. (Previously Presented) The system of claim 45 wherein the message processing platform is adapted to identify a sequence of a mobile application part (MAP) update location request message, a MAP insert subscriber data message, and a MAP update location response message relating to a change in location of the particular mobile subscriber.
69. (Previously Presented) The system of claim 57 wherein the message processing platform is adapted to identify a sequence of a mobile application part (MAP) update location request message, a MAP insert subscriber data message, and a MAP update location response message relating to a change in location of the particular mobile subscriber.